

**VOLUME I  
PERFORMANCE FLIGHT TESTING**

**APPENDIX B  
U. S. STANDARD ATMOSPHERE  
ALTITUDE, TEMPERATURE,  
PRESSURE AND DENSITY**

19970116 076

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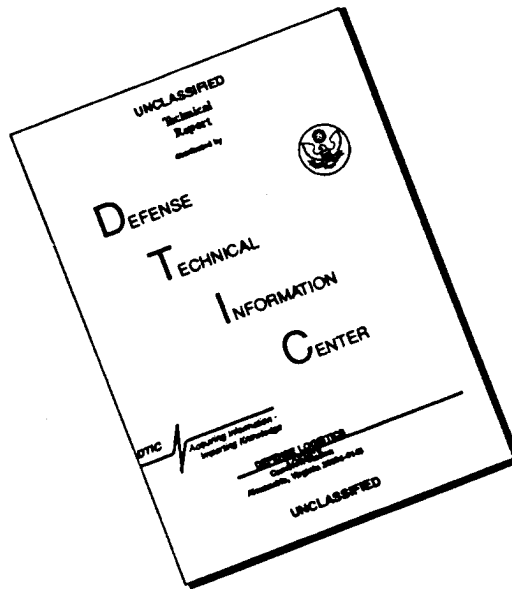
1962

**USAF TEST PILOT SCHOOL  
EDWARDS AFB, CA**

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APPENDIX B  
U.S. STANDARD ATMOSPHERE, 1962  
Altitude, Temperature, Pressure, and Density

ADOPTED PRIMARY CONSTANTS.....

Symbol	Units
$P_0$	2116.22 lbf ft <sup>-2</sup>
$\rho_0$	0.076474 lb ft <sup>-3</sup>
$T_0$	15_C; 59.0_F
$G_0$	32.1741 ft sec <sup>-2</sup>
$R^*$	1545.31 lbf _R <sup>-1</sup> lb-mol <sup>-1</sup>
$Z$	Tapeline Altitude ft
$H$	Geopotential Altitude ft

# GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

ALTITUDE		TEMPERATURE			PRESSURE			DENSITY	
H, FT	Z, FT	T, °R	t, °F	t, °C	P, mB	P, IN. HG	$\frac{P}{P_0}$	$\rho$ , LB FT <sup>-3</sup>	$\frac{\rho}{\rho_0}$
-1000	-1000	522.236	62.566	16.981	1.05041 + 3	3.10185 + 1	1.03867 + 0	7.8737 - 2	1.0296 + 0
-900	-900	521.880	62.210	16.783	1.04664	3.08073	1.03285	7.8508	1.0286
-800	-800	521.522	61.853	16.585	1.04289	3.07985	1.02825	7.8281	1.0276
-700	-700	521.163	61.495	16.387	1.03914	3.08889	1.02596	7.8053	1.0266
-600	-600	520.810	61.140	16.189	1.03541	3.05757	1.02187	7.7826	1.0177
-500	-500	520.453	60.783	15.991	1.03169	3.04689	1.01820	7.7598	1.0147
-400	-400	520.098	60.428	15.792	1.02798	3.03583	1.01454	7.7373	1.0118
-300	-300	519.740	60.070	15.594	1.02428	3.02471	1.01088	7.7148	1.0088
-200	-200	519.383	59.713	15.396	1.02059	3.01361	1.00725	7.6923	1.0059
-100	-100	519.027	59.357	15.198	1.01682	3.00285	1.00362	7.6698	1.0029
0	0	518.670	59.000	15.000	1.01325 + 3	2.99213 + 1	1.00000 + 0	7.6474 - 2	1.0000 + 0
100	100	518.313	58.643	14.802	1.00969	2.98133	9.98391 - 1	7.6251	9.9708 - 1
200	200	517.957	58.287	14.604	1.00605	2.97054	9.97273	7.6028	9.9416
300	300	517.600	57.930	14.406	1.00231	2.95983	9.96208	7.5805	9.9125
400	400	517.244	57.574	14.208	9.99869 + 2	2.94913	9.95129	7.5583	9.8835
500	500	516.887	57.217	14.009	9.99505	2.93846	9.94053	7.5362	9.8545
600	600	516.530	56.860	13.811	9.99142	2.92782	9.92987	7.5141	9.8256
700	700	516.174	56.504	13.613	9.98780	2.91721	9.91921	7.4920	9.7966
800	800	515.817	56.147	13.415	9.98428	2.90663	9.91426	7.4700	9.7680
900	900	515.460	55.790	13.217	9.98072	2.89608	9.90901	7.4480	9.7393
1000	1000	515.104	55.434	13.019	9.97716 + 2	2.88557 + 1	9.90387 - 1	7.4261 - 2	9.7106 - 1
1100	1100	514.747	55.077	12.821	9.973615	2.87508	9.89883	7.4043	9.6821
1200	1200	514.391	54.721	12.623	9.970075	2.86463	9.89380	7.3825	9.6535
1300	1300	514.034	54.364	12.424	9.966545	2.85421	9.88876	7.3607	9.6251
1400	1400	513.677	54.007	12.226	9.963025	2.84382	9.88373	7.3390	9.5967
1500	1500	513.321	53.651	12.028	9.959517	2.83345	9.87870	7.3174	9.5684
1600	1600	512.964	53.294	11.830	9.956019	2.82312	9.87368	7.2957	9.5401
1700	1700	512.608	52.938	11.632	9.952531	2.81282	9.86867	7.2742	9.5119
1800	1800	512.251	52.581	11.434	9.949053	2.80255	9.86364	7.2527	9.4838
1900	1900	511.894	52.224	11.236	9.945586	2.79231	9.85862	7.2312	9.4557
2000	2000	511.538	51.868	11.038	9.942129 + 2	2.78210 + 1	9.85360 - 1	7.2098 - 2	9.4277 - 1
2100	2100	511.181	51.511	10.839	9.938682	2.77193	9.84857	7.1884	9.3998
2200	2200	510.824	51.154	10.641	9.935245	2.76178	9.84354	7.1671	9.3719
2300	2300	510.468	50.798	10.443	9.931818	2.75166	9.83852	7.1458	9.3441
2400	2400	510.111	50.441	10.245	9.928402	2.74157	9.83350	7.1246	9.3164
2500	2500	509.755	50.085	10.047	9.924986	2.73151	9.82848	7.1034	9.2887
2600	2600	509.398	49.728	9.849	9.921580	2.72148	9.82346	7.0823	9.2610
2700	2700	509.041	49.371	9.651	9.918184	2.71148	9.81844	7.0612	9.2335
2800	2800	508.685	49.015	9.453	9.914788	2.70152	9.81342	7.0402	9.2060
2900	2900	508.328	48.658	9.255	9.911472	2.69158	9.80840	7.0192	9.1785
3000	3000	507.972	48.302	9.058	9.908115 + 2	2.68167 + 1	9.80341 - 1	6.9983 - 2	9.1512 - 1
3100	3100	507.615	47.945	8.860	9.904770	2.67179	9.79839	6.9774	9.1239
3200	3200	507.258	47.588	8.662	9.901425	2.66194	9.79337	6.9566	9.0966
3300	3300	506.902	47.232	8.464	9.898109	2.65211	9.78834	6.9358	9.0694
3400	3400	506.545	46.875	8.266	9.894793	2.64232	9.78332	6.9150	9.0423
3500	3500	506.188	46.518	8.068	9.891487	2.63256	9.77829	6.8943	9.0152
3600	3600	505.832	46.162	7.870	9.888191	2.62283	9.77326	6.8737	8.9882
3700	3700	505.475	45.805	7.672	9.884905	2.61312	9.76823	6.8531	8.9613
3800	3800	505.119	45.449	7.474	9.881628	2.60346	9.76319	6.8325	8.9344
3900	3900	504.762	45.092	7.275	9.878362	2.59380	9.75816	6.8120	8.9076
4000	4000	504.405	44.735	7.077	9.875105 + 2	2.58418 + 1	9.75311 - 1	6.7916 - 2	8.8809 - 1
4100	4100	504.048	44.379	6.877	9.871858	2.57460	9.74807	6.7712	8.8542
4200	4200	503.692	44.022	6.679	9.868621	2.56504	9.74302	6.7508	8.8275
4300	4300	503.335	43.664	6.481	9.865383	2.55551	9.73797	6.7305	8.8010
4400	4400	502.979	43.307	6.283	9.862176	2.54600	9.73292	6.7102	8.7745
4500	4500	502.622	42.950	6.085	9.858968	2.53653	9.72787	6.6899	8.7480
4600	4600	502.266	42.594	5.888	9.855789	2.52709	9.72282	6.6696	8.7216
4700	4700	501.909	42.238	5.690	9.852581	2.51767	9.71777	6.6493	8.6953
4800	4800	501.552	41.882	5.492	9.849402	2.50828	9.71272	6.6290	8.6690
4900	4900	501.196	41.526	5.294	9.846232	2.49892	9.70767	6.6086	8.6428
5000	5000	500.839	41.169	5.096	9.843072 + 2	2.48959 + 1	9.70261 - 1	6.5883 - 2	8.6167 - 1
5100	5100	500.483	40.813	4.898	9.839882	2.48029	9.69756	6.5680	8.5906
5200	5200	500.126	40.456	4.699	9.836711	2.47101	9.69251	6.5477	8.5646
5300	5300	499.769	40.099	4.500	9.833560	2.46177	9.68746	6.5274	8.5386
5400	5400	499.413	39.743	4.302	9.830428	2.45256	9.68241	6.5071	8.5127
5500	5500	499.056	39.386	4.103	9.827316	2.44338	9.67736	6.4868	8.4868
5600	5600	498.699	39.029	3.905	9.824213	2.43423	9.67231	6.4665	8.4611
5700	5700	498.343	38.673	3.707	9.821120	2.42509	9.66726	6.4462	8.4354
5800	5800	497.986	38.316	3.509	9.818036	2.41598	9.66221	6.4259	8.4097
5900	5900	497.630	37.960	3.311	9.814962	2.40687	9.65716	6.4117	8.3841
6000	6000	497.273	37.603	3.113	9.811900 + 2	2.39778 + 1	9.65211 - 1	6.3922 - 2	8.3586 - 1
6100	6100	496.916	37.246	2.915	9.808840	2.38869	9.64706	6.3727	8.3331
6200	6200	496.560	36.890	2.717	9.805789	2.37960	9.64201	6.3532	8.3077
6300	6300	496.203	36.533	2.518	9.802756	2.37053	9.63696	6.3339	8.2823
6400	6400	495.847	36.177	2.320	9.799730	2.36148	9.63191	6.3146	8.2570
6500	6500	495.490	35.820	2.122	9.796719	2.35245	9.62686	6.2953	8.2318
6600	6600	495.133	35.463	1.924	9.793719	2.34343	9.62181	6.2760	8.2066
6700	6700	494.777	35.107	1.726	9.790728	2.33443	9.61676	6.2567	8.1815
6800	6800	494.420	34.750	1.528	9.787748	2.32546	9.61171	6.2374	8.1564
6900	6900	494.063	34.393	1.330	9.784786	2.31650	9.60666	6.2184	8.1314

# GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

ALTITUDE		TEMPERATURE			PRESSURE			DENSITY	
H, FT	Z, FT	T, °R	t, °F	t, °C	P, mB	P, IN. HG	$\frac{P}{P_0}$	$\rho$ , LB FT <sup>-3</sup>	$\frac{\rho}{\rho_0}$
7000	7002	483.707	34.037	1.132	7.81853 + 2	2.30881 + 1	7.71629 - 1	6.1993 - 2	8.1064 - 1
7100	7102	483.350	33.680	0.923	7.78889	2.30006	7.68704	6.1803	8.0816
7200	7202	482.994	33.324	0.735	7.75935	2.29123	7.65788	6.1613	8.0567
7300	7303	482.637	32.967	0.537	7.72979	2.28246	7.62881	6.1424	8.0320
7400	7403	482.280	32.610	0.339	7.70023	2.27377	7.59973	6.1235	8.0071
7500	7503	481.924	32.254	0.141	7.67125	2.26502	7.57064	6.1046	7.9821
7600	7603	481.567	31.897	-0.057	7.64237	2.25627	7.54214	6.0858	7.9569
7700	7703	481.211	31.541	-0.258	7.61298	2.24751	7.51342	6.0670	7.9324
7800	7803	480.854	31.184	-0.453	7.58387	2.23876	7.48486	6.0483	7.9080
7900	7903	480.497	30.827	-0.651	7.55506	2.23001	7.45628	6.0296	7.8845
8000	8003	480.141	30.471	-0.850	7.52625 + 2	2.22126 + 1	7.42781 - 1	6.0110 - 2	7.8602 - 1
8100	8103	480.784	30.114	-1.048	7.49750	2.21241	7.39946	5.9924	7.8359
8200	8203	480.427	29.757	-1.246	7.46886	2.20365	7.37118	5.9739	7.8116
8300	8303	480.071	29.401	-1.444	7.44029	2.19482	7.34300	5.9554	7.7874
8400	8403	480.714	29.044	-1.642	7.41182	2.18601	7.31480	5.9369	7.7633
8500	8503	480.358	28.688	-1.840	7.38344	2.18033	7.28689	5.9185	7.7392
8600	8604	480.001	28.331	-2.038	7.35514	2.17197	7.25896	5.9001	7.7152
8700	8704	480.644	27.974	-2.236	7.32684	2.16364	7.23113	5.8818	7.6912
8800	8804	480.288	27.618	-2.435	7.29862	2.15534	7.20338	5.8635	7.6673
8900	8904	480.931	27.261	-2.633	7.27079	2.14706	7.17571	5.8453	7.6434
9000	9004	480.575	26.905	-2.831	7.24285 + 2	2.13881 + 1	7.14813 - 1	5.8271 - 2	7.6196 - 1
9100	9104	480.218	26.548	-3.029	7.21499	2.13059	7.12064	5.8089	7.5959
9200	9204	480.861	26.191	-3.227	7.18722	2.12236	7.09323	5.7908	7.5722
9300	9304	480.505	25.835	-3.425	7.15954	2.11421	7.06581	5.7727	7.5486
9400	9404	480.148	25.478	-3.623	7.13194	2.10606	7.03868	5.7547	7.5250
9500	9504	480.791	25.121	-3.821	7.10443	2.09794	7.01152	5.7367	7.5015
9600	9604	480.435	24.765	-4.020	7.07700	2.08984	6.98446	5.7188	7.4781
9700	9705	480.078	24.408	-4.218	7.04966	2.08177	6.95748	5.7009	7.4547
9800	9805	480.722	24.052	-4.416	7.02241	2.07372	6.93058	5.6830	7.4313
9900	9905	480.365	23.695	-4.614	6.99524	2.06569	6.90377	5.6652	7.4080
10000*	10005	480.008	23.338	-4.812	6.96816 + 2	2.05770 + 1	6.87704 - 1	5.6475 - 2	7.3848 - 1
10100	10105	480.652	22.982	-5.010	6.94116	2.04972	6.85040	5.6297	7.3616
10200	10205	480.295	22.625	-5.208	6.91425	2.04178	6.82383	5.6121	7.3385
10300	10305	480.939	22.269	-5.406	6.88742	2.03385	6.79735	5.5944	7.3154
10400	10405	480.582	21.912	-5.604	6.86068	2.02596	6.77086	5.5768	7.2924
10500	10505	480.225	21.555	-5.803	6.83402	2.01808	6.74446	5.5593	7.2695
10600	10605	480.868	21.199	-6.001	6.80744	2.01024	6.71842	5.5418	7.2466
10700	10705	480.512	20.842	-6.199	6.78086	2.00241	6.69228	5.5243	7.2237
10800	10805	480.155	20.485	-6.397	6.75454	1.99461	6.66621	5.5068	7.2009
10900	10905	479.799	20.129	-6.596	6.72822	1.98684	6.64023	5.4895	7.1782
11000	11005	479.442	19.772	-6.793	6.70197 + 2	1.97909 + 1	6.61433 - 1	5.4721 - 2	7.1556 - 1
11100	11105	479.086	19.416	-6.991	6.67581	1.97137	6.58852	5.4548	7.1329
11200	11205	478.729	19.059	-7.189	6.64974	1.96367	6.56278	5.4376	7.1103
11300	11305	478.372	18.702	-7.388	6.62374	1.95600	6.53713	5.4203	7.0878
11400	11405	478.016	18.346	-7.586	6.59783	1.94834	6.51156	5.4032	7.0653
11500	11505	477.659	17.989	-7.784	6.57200	1.94071	6.48606	5.3860	7.0429
11600	11605	477.303	17.633	-7.982	6.54625	1.93311	6.46065	5.3689	7.0206
11700	11705	476.946	17.276	-8.180	6.52059	1.92553	6.43533	5.3519	6.9983
11800	11805	476.589	16.919	-8.378	6.49500	1.91797	6.41007	5.3349	6.9761
11900	11907	476.233	16.563	-8.576	6.46950	1.91044	6.38489	5.3179	6.9539
12000	12007	475.876	16.206	-8.774	6.44408 + 2	1.90294 + 1	6.35981 - 1	5.3010 - 2	6.9317 - 1
12100	12107	475.519	15.849	-8.973	6.41874	1.89546	6.33489	5.2841	6.9097
12200	12207	475.163	15.493	-9.171	6.39348	1.88799	6.30987	5.2673	6.8876
12300	12307	474.806	15.136	-9.369	6.36830	1.88058	6.28502	5.2505	6.8657
12400	12407	474.450	14.780	-9.567	6.34320	1.87315	6.26025	5.2337	6.8437
12500	12507	474.093	14.423	-9.765	6.31818	1.86576	6.23556	5.2170	6.8219
12600	12608	473.736	14.066	-9.963	6.29324	1.85839	6.21096	5.2003	6.8001
12700	12708	473.380	13.710	-10.161	6.26838	1.85105	6.18641	5.1837	6.7785
12800	12808	473.023	13.353	-10.359	6.24350	1.84374	6.16196	5.1671	6.7566
12900	12908	472.667	12.997	-10.557	6.21860	1.83644	6.13758	5.1506	6.7349
13000	13008	472.310	12.640	-10.756	6.19378 + 2	1.82917 + 1	6.11329 - 1	5.1340 - 2	6.7133 - 1
13100	13108	471.953	12.283	-10.954	6.168974	1.82182	6.08906	5.1175	6.6918
13200	13208	471.597	11.927	-11.152	6.14428	1.81470	6.06482	5.1011	6.6703
13300	13308	471.240	11.570	-11.350	6.11960	1.80759	6.04065	5.0847	6.6489
13400	13408	470.883	11.213	-11.548	6.09500	1.80052	6.01666	5.0683	6.6275
13500	13508	470.527	10.857	-11.746	6.07038	1.79347	5.99283	5.0520	6.6061
13600	13608	470.170	10.500	-11.944	6.04582	1.78643	5.96912	5.0357	6.5849
13700	13708	469.814	10.144	-12.142	6.02124	1.77940	5.94536	5.0195	6.5638
13800	13808	469.457	9.787	-12.341	6.000014	1.77244	5.92189	5.0033	6.5424
13900	13908	469.100	9.430	-12.539	5.97882	1.76549	5.89867	4.9871	6.5213
14000	14008	468.744	9.074	-12.737	5.95768 + 2	1.75874 + 1	5.87485 - 1	4.9710 - 2	6.5003 - 1
14100	14110	468.387	8.717	-12.935	5.93682	1.75202	5.85109	4.9549	6.4792
14200	14210	468.031	8.361	-13.133	5.91603	1.74537	5.82772	4.9389	6.4583
14300	14310	467.674	8.004	-13.331	5.89533	1.73875	5.80442	4.9229	6.4373
14400	14410	467.317	7.647	-13.529	5.87467	1.73211	5.78119	4.9070	6.4165
14500	14510	466.961	7.291	-13.727	5.85404	1.72548	5.75804	4.8910	6.3957
14600	14610	466.604	6.934	-13.926	5.83344	1.71887	5.73497	4.8753	6.3749
14700	14710	466.247	6.577	-14.124	5.81286	1.71228	5.71197	4.8598	6.3542
14800	14811	465.891	6.221	-14.322	5.79242	1.70573	5.68904	4.8446	6.3335
14900	14911	465.534	5.864	-14.520	5.77197	1.69919	5.66619	4.8287	6.3129

# GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

ALTITUDE		TEMPERATURE			PRESSURE			DENSITY	
H, FT	Z, FT	T, °R	t, °F	t, °C	P, mB	P, IN. HG	$\frac{P}{P_0}$	$\rho$ , LB FT <sup>-3</sup>	$\frac{\rho}{\rho_0}$
15000	15011	485.178	5.508	-14.718	5.71819 + 2	1.68858 + 1	5.64342 - 1	4.8120 - 2	6.2924 - 1
15100	15111	484.721	5.151	-14.916	5.65519	1.68179	5.62071	4.7954	6.2719
15200	15211	484.264	4.794	-15.114	5.67226	1.67502	5.59538	4.7807	6.2514
15300	15311	483.808	4.438	-15.312	5.68941	1.66827	5.57023	4.7661	6.2310
15400	15411	483.351	4.081	-15.510	5.62863	1.66154	5.54508	4.7514	6.2105
15500	15512	482.895	3.725	-15.708	5.60383	1.65484	5.52004	4.7368	6.1904
15600	15612	482.438	3.368	-15.897	5.58130	1.64816	5.50031	4.7222	6.1701
15700	15712	481.981	3.011	-15.105	5.55874	1.64150	5.48008	4.7075	6.1499
15800	15812	481.525	2.655	-14.303	5.53628	1.63486	5.46004	4.6929	6.1298
15900	15912	481.068	2.298	-14.501	5.51385	1.62824	5.44175	4.6783	6.1097
16000	16012	481.611	1.941	-16.699	5.49152 + 2	1.62164 + 1	5.41971 - 1	4.6570 - 2	6.0896 - 1
16100	16112	481.255	1.585	-16.897	5.46925	1.61507	5.39773	4.6417	6.0696
16200	16213	480.898	1.228	-17.095	5.44707	1.60852	5.37584	4.6264	6.0497
16300	16313	480.542	0.872	-17.294	5.42485	1.60199	5.35401	4.6112	6.0298
16400	16413	480.185	0.515	-17.492	5.40291	1.59548	5.33226	4.5961	6.0099
16500	16513	479.828	0.158	-17.690	5.38094	1.58899	5.31057	4.5809	5.9901
16600	16613	479.472	-0.198	-17.888	5.35904	1.58252	5.28896	4.5658	5.9704
16700	16713	479.115	-0.555	-18.086	5.33722	1.57606	5.26742	4.5508	5.9507
16800	16814	478.759	-0.911	-18.284	5.31546	1.56965	5.24596	4.5357	5.9311
16900	16914	478.402	-1.268	-18.482	5.29378	1.56325	5.22456	4.5207	5.9115
17000	17014	478.045	-1.625	-18.680	5.27217 + 2	1.55687 + 1	5.20323 - 1	4.5058 - 2	5.8919 - 1
17100	17114	477.689	-1.981	-18.879	5.25064	1.55051	5.18197	4.4909	5.8724
17200	17214	477.332	-2.338	-19.077	5.22917	1.54417	5.16079	4.4760	5.8530
17300	17314	476.975	-2.695	-19.275	5.20777	1.53785	5.13967	4.4612	5.8336
17400	17415	476.619	-3.051	-19.473	5.18645	1.53156	5.11863	4.4464	5.8142
17500	17515	476.262	-3.408	-19.671	5.16519	1.52528	5.09765	4.4316	5.7949
17600	17615	475.906	-3.764	-19.869	5.14401	1.51903	5.07674	4.4168	5.7757
17700	17715	475.549	-4.121	-20.067	5.12290	1.51279	5.05591	4.4022	5.7565
17800	17815	475.192	-4.478	-20.265	5.10185	1.50658	5.03514	4.3876	5.7373
17900	17915	474.836	-4.834	-20.463	5.08088	1.50038	5.01444	4.3729	5.7182
18000	18016	474.479	-5.191	-20.662	5.05998 + 2	1.49421 + 1	4.99381 - 1	4.3584 - 2	5.6991 - 1
18100	18116	474.122	-5.547	-20.860	5.03915	1.48806	4.97325	4.3438	5.6801
18200	18216	473.766	-5.904	-21.058	5.01838	1.48193	4.95276	4.3293	5.6612
18300	18316	473.409	-6.261	-21.256	4.99769	1.47582	4.93233	4.3148	5.6423
18400	18416	473.053	-6.617	-21.454	4.97705	1.46973	4.91198	4.3005	5.6234
18500	18516	472.696	-6.974	-21.652	4.95651	1.46368	4.89169	4.2861	5.6046
18600	18617	472.339	-7.331	-21.850	4.93602	1.45761	4.87147	4.2717	5.5858
18700	18717	471.983	-7.687	-22.048	4.91560	1.45158	4.85132	4.2574	5.5671
18800	18817	471.626	-8.044	-22.247	4.89525	1.44557	4.83124	4.2431	5.5484
18900	18917	471.270	-8.400	-22.445	4.87487	1.43958	4.81122	4.2289	5.5298
19000	19017	470.913	-8.757	-22.643	4.85445 + 2	1.43361 + 1	4.79127 - 1	4.2147 - 2	5.5112 - 1
19100	19118	470.556	-9.114	-22.841	4.83461	1.42766	4.77139	4.2005	5.4927
19200	19218	470.200	-9.470	-23.039	4.81453	1.42173	4.75157	4.1864	5.4742
19300	19318	469.843	-9.827	-23.237	4.79462	1.41582	4.73182	4.1723	5.4558
19400	19418	469.486	-10.184	-23.435	4.77458	1.40993	4.71214	4.1582	5.4374
19500	19518	469.130	-10.540	-23.633	4.75470	1.40406	4.69252	4.1442	5.4191
19600	19618	468.773	-10.897	-23.832	4.73489	1.39821	4.67297	4.1302	5.4008
19700	19719	468.417	-11.253	-24.030	4.71515	1.39238	4.65349	4.1163	5.3826
19800	19819	468.060	-11.610	-24.228	4.69547	1.38657	4.63407	4.1024	5.3644
19900	19919	467.703	-11.967	-24.426	4.67586	1.38076	4.61472	4.0885	5.3462
20000	20019	467.347	-12.323	-24.624	4.65632 + 2	1.37501 + 1	4.59543 - 1	4.0746 - 2	5.3281 - 1
20100	20119	466.990	-12.680	-24.822	4.63685	1.36926	4.57621	4.0608	5.3101
20200	20220	466.634	-13.036	-25.020	4.61743	1.36353	4.55705	4.0471	5.2921
20300	20320	466.277	-13.393	-25.218	4.59809	1.35782	4.53796	4.0333	5.2741
20400	20420	465.920	-13.750	-25.416	4.57881	1.35212	4.51894	4.0196	5.2562
20500	20520	465.564	-14.106	-25.615	4.55960	1.34645	4.49997	4.0060	5.2383
20600	20620	465.207	-14.463	-25.813	4.54045	1.34079	4.48108	3.9923	5.2205
20700	20721	464.850	-14.820	-26.011	4.52137	1.33516	4.46224	3.9787	5.2027
20800	20821	464.494	-15.177	-26.209	4.50225	1.32954	4.44347	3.9652	5.1850
20900	20921	464.137	-15.533	-26.407	4.48340	1.32395	4.42477	3.9517	5.1673
21000	21021	463.781	-15.890	-26.605	4.46451 + 2	1.31837 + 1	4.40613 - 1	3.9382 - 2	5.1497 - 1
21100	21121	463.424	-16.246	-26.803	4.44569	1.31281	4.38756	3.9247	5.1321
21200	21222	463.067	-16.603	-27.001	4.42682	1.30727	4.36904	3.9113	5.1145
21300	21322	462.711	-16.959	-27.200	4.40803	1.30175	4.35058	3.8979	5.0970
21400	21422	462.354	-17.316	-27.398	4.38940	1.29625	4.33220	3.8846	5.0796
21500	21522	461.998	-17.672	-27.596	4.37103	1.29076	4.31387	3.8713	5.0622
21600	21622	461.641	-18.029	-27.794	4.35253	1.28530	4.29561	3.8580	5.0448
21700	21723	461.284	-18.386	-27.992	4.33409	1.27988	4.27741	3.8448	5.0275
21800	21823	460.928	-18.743	-28.190	4.31571	1.27443	4.25927	3.8316	5.0102
21900	21923	460.571	-19.099	-28.388	4.29739	1.26899	4.24120	3.8184	4.9930
22000	22023	460.214	-19.456	-28.586	4.27914 + 2	1.26363 + 1	4.22319 - 1	3.8052 - 2	4.9758 - 1
22100	22123	460.858	-19.812	-28.785	4.26086	1.25826	4.20534	3.7921	4.9587
22200	22224	460.501	-20.169	-28.983	4.24263	1.25291	4.18755	3.7791	4.9416
22300	22324	460.145	-20.525	-29.181	4.22447	1.24757	4.16982	3.7660	4.9246
22400	22424	460.788	-20.882	-29.379	4.20637	1.24226	4.15216	3.7530	4.9076
22500	22524	460.431	-21.239	-29.577	4.18833	1.23696	4.13465	3.7401	4.8906
22600	22625	460.075	-21.595	-29.775	4.17035	1.23168	4.11661	3.7271	4.8737
22700	22725	459.718	-21.952	-29.973	4.15234	1.22642	4.09883	3.7143	4.8568
22800	22825	459.362	-22.308	-30.171	4.13438	1.22118	4.08131	3.7014	4.8400
22900	22925	459.006	-22.665	-30.369	4.11709	1.21595	4.06384	3.6886	4.8233

# GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

ALTITUDE		TEMPERATURE			PRESSURE			DENSITY	
H, FT	Z, FT	T, °R	t, °F	t, °C	P, mB	P, IN. HG	$\frac{P}{P_0}$	$\rho$ , LB FT <sup>-3</sup>	$\frac{\rho}{\rho_0}$
23000	23025	436.448	-23.022	-30.568	4.10008 + 2	1.21075 + 1	4.04445 - 1	1.6758 - 2	4.8085 - 1
23100	23125	436.592	-23.078	-30.786	4.08249	1.20556	4.02911	1.6830	4.7899
23200	23225	436.828	-23.152	-30.954	4.05498	1.20039	4.01123	1.6903	4.7722
23300	23325	437.158	-23.270	-31.123	4.04754	1.19524	3.99481	1.6976	4.7555
23400	23425	437.582	-23.418	-31.360	4.03015	1.19010	3.97745	1.7049	4.7401
23500	23527	438.095	-23.585	-31.558	4.01282	1.18499	3.96035	1.7123	4.7256
23600	23627	438.698	-23.781	-31.756	3.99556	1.17989	3.94331	1.7197	4.7071
23700	23727	439.391	-24.018	-31.954	3.97835	1.17481	3.92633	1.7272	4.6897
23800	23827	440.175	-24.275	-32.153	3.96121	1.16974	3.90941	1.7346	4.6743
23900	23927	441.049	-24.551	-32.351	3.94412	1.16470	3.89255	1.7422	4.6589
24000	24028	442.012	-24.848	-32.549	3.92710 + 2	1.15967 + 1	3.87574 - 1	1.7497 - 2	4.6417 - 1
24100	24128	443.075	-25.164	-32.747	3.91013	1.15466	3.85900	1.7573	4.6254
24200	24228	444.238	-25.500	-32.945	3.89322	1.14967	3.84231	1.7649	4.6092
24300	24328	445.501	-25.856	-33.143	3.87637	1.14469	3.82568	1.7725	4.5931
24400	24429	446.864	-26.232	-33.341	3.85959	1.13974	3.80912	1.7802	4.5770
24500	24529	448.327	-26.628	-33.539	3.84286	1.13480	3.79260	1.7879	4.5609
24600	24629	449.890	-27.044	-33.738	3.82619	1.12987	3.77615	1.7957	4.5449
24700	24729	451.553	-27.480	-33.936	3.80957	1.12497	3.75976	1.8034	4.5289
24800	24830	453.316	-27.936	-34.134	3.79302	1.12008	3.74342	1.8112	4.5129
24900	24930	455.179	-28.412	-34.332	3.77652	1.11521	3.72714	1.8191	4.4970
25000	25030	457.142	-28.908	-34.530	3.76009 + 2	1.11035 + 1	3.71092 - 1	1.8270 - 2	4.4812 - 1
25100	25130	459.205	-29.424	-34.728	3.74371	1.10552	3.69475	1.8349	4.4654
25200	25230	461.368	-29.960	-34.926	3.72739	1.10070	3.67864	1.8428	4.4496
25300	25331	463.631	-30.516	-35.124	3.71112	1.09589	3.66259	1.8507	4.4339
25400	25431	466.094	-31.092	-35.322	3.69492	1.09111	3.64660	1.8587	4.4182
25500	25531	468.657	-31.688	-35.521	3.67877	1.08634	3.63066	1.8667	4.4025
25600	25631	471.320	-32.304	-35.719	3.66267	1.08159	3.61478	1.8747	4.3869
25700	25732	474.083	-32.940	-35.917	3.64664	1.07685	3.59895	1.8827	4.3714
25800	25832	476.946	-33.596	-36.115	3.63066	1.07213	3.58319	1.8907	4.3559
25900	25932	478.909	-34.272	-36.313	3.61474	1.06743	3.56747	1.8987	4.3404
26000	26032	480.972	-34.968	-36.511	3.59888 + 2	1.06275 + 1	3.55181 - 1	1.9067 - 2	4.3250 - 1
26100	26133	483.135	-35.684	-36.709	3.58307	1.05808	3.53621	1.9147	4.3096
26200	26233	485.398	-36.420	-36.907	3.56732	1.05343	3.52067	1.9227	4.2942
26300	26333	487.761	-37.176	-37.106	3.55162	1.04879	3.50518	1.9307	4.2789
26400	26433	490.224	-37.952	-37.304	3.53598	1.04417	3.48974	1.9387	4.2637
26500	26534	492.787	-38.748	-37.502	3.52040	1.03957	3.47436	1.9467	4.2484
26600	26634	495.450	-39.564	-37.700	3.50487	1.03499	3.45904	1.9547	4.2333
26700	26734	498.213	-40.400	-37.898	3.48940	1.03042	3.44377	1.9627	4.2181
26800	26834	501.076	-41.256	-38.096	3.47398	1.02587	3.42855	1.9707	4.2030
26900	26935	504.039	-42.132	-38.294	3.45862	1.02133	3.41339	1.9787	4.1880
27000	27035	507.102	-43.028	-38.492	3.44331 + 2	1.01681 + 1	3.39828 - 1	1.9867 - 2	4.1730 - 1
27100	27135	510.265	-43.944	-38.691	3.42808	1.01230	3.38323	1.9947	4.1580
27200	27236	513.528	-44.880	-38.889	3.41286	1.00782	3.36823	1.0027	4.1430
27300	27336	516.891	-45.836	-39.087	3.39772	1.00335	3.35329	1.0107	4.1282
27400	27436	520.354	-46.812	-39.285	3.38263	9.99889 + 0	3.33839	1.0187	4.1133
27500	27536	523.917	-47.808	-39.483	3.36759	9.99440	3.32356	1.0267	4.0985
27600	27637	527.580	-48.824	-39.681	3.35261	9.99002	3.30877	1.0347	4.0837
27700	27737	531.343	-49.860	-39.879	3.33769	9.985619	3.29404	1.0427	4.0690
27800	27837	535.206	-50.916	-40.077	3.32281	9.98127	3.27936	1.0507	4.0543
27900	27937	539.169	-51.982	-40.275	3.30800	9.976951	3.26474	1.0587	4.0397
28000	28038	543.232	-53.068	-40.473	3.29323 + 2	9.97249 + 0	3.25017 - 1	1.0667 - 2	4.0251 - 1
28100	28138	547.395	-54.174	-40.672	3.27852	9.968147	3.23566	1.0747	4.0105
28200	28238	551.658	-55.290	-40.870	3.26386	9.963818	3.22118	1.0827	3.9960
28300	28338	556.021	-56.426	-41.068	3.24926	9.959505	3.20677	1.0907	3.9815
28400	28439	560.484	-57.582	-41.266	3.23470	9.955208	3.19241	1.0987	3.9670
28500	28539	565.047	-58.758	-41.464	3.22021	9.950926	3.17810	1.1067	3.9526
28600	28639	569.710	-59.954	-41.662	3.20576	9.946660	3.16384	1.1147	3.9383
28700	28740	574.473	-61.170	-41.860	3.19136	9.942410	3.14963	1.1227	3.9239
28800	28840	579.336	-62.406	-42.058	3.17702	9.938174	3.13546	1.1307	3.9097
28900	28940	584.299	-63.662	-42.257	3.16273	9.933955	3.12138	1.1387	3.8954
29000	29040	589.362	-64.938	-42.455	3.14850 + 2	9.929750 + 0	3.10732 - 1	1.1467 - 2	3.8812 - 1
29100	29141	594.525	-66.234	-42.653	3.13431	9.925561	3.09332	1.1547	3.8670
29200	29241	599.788	-67.550	-42.851	3.12018	9.921388	3.07937	1.1627	3.8529
29300	29341	605.151	-68.886	-43.049	3.10609	9.917229	3.06548	1.1707	3.8388
29400	29442	610.614	-70.242	-43.247	3.09204	9.913086	3.05163	1.1787	3.8248
29500	29542	616.177	-71.618	-43.445	3.07804	9.908958	3.03783	1.1867	3.8108
29600	29642	621.840	-73.014	-43.643	3.06410	9.904845	3.02408	1.1947	3.7968
29700	29742	627.603	-74.430	-43.841	3.05022	9.900747	3.01039	1.2027	3.7829
29800	29843	633.466	-75.866	-44.039	3.03645	9.896665	2.99675	1.2107	3.7690
29900	29943	639.429	-77.322	-44.238	3.02268	9.892597	2.98315	1.2187	3.7551
30000	30043	645.492	-78.808	-44.436	3.00895 + 2	9.888544 + 0	2.96961 - 1	1.2267 - 2	3.7413 - 1
30100	30144	651.655	-80.314	-44.634	2.99528	9.884506	2.95611	1.2347	3.7275
30200	30244	657.918	-81.840	-44.832	2.98166	9.880483	2.94267	1.2427	3.7138
30300	30344	664.281	-83.386	-45.030	2.96808	9.876475	2.92927	1.2507	3.7001
30400	30444	670.744	-84.952	-45.228	2.95456	9.872481	2.91592	1.2587	3.6865
30500	30545	677.307	-86.538	-45.427	2.94109	9.868502	2.90263	1.2667	3.6729
30600	30645	683.970	-88.144	-45.625	2.92766	9.864539	2.88938	1.2747	3.6593
30700	30745	690.733	-89.770	-45.823	2.91429	9.860589	2.87618	1.2827	3.6457
30800	30846	697.596	-91.416	-46.021	2.90096	9.856654	2.86303	1.2907	3.6322
30900	30946	704.559	-93.082	-46.219	2.88769	9.852734	2.84993	1.2987	3.6188

# GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

ALTITUDE		TEMPERATURE			PRESSURE			DENSITY	
H, FT	Z, FT	T, °R	t, °F	t, °C	P, mB	P, IN. HG	$\frac{P}{P_0}$	$\rho$ , LB FT <sup>-3</sup>	$\frac{\rho}{\rho_0}$
31000	31046	408.119	-51.551	-46.417	2.87446 + 2	8.48229 + 0	2.83587 - 1	2.7571 - 2	3.6053 - 1
31100	31146	407.762	-51.908	-46.615	2.86125	8.44728	2.82387	2.7489	3.5919
31200	31247	407.405	-52.264	-46.813	2.84716	8.41191	2.81091	2.7357	3.5785
31300	31347	407.048	-52.621	-47.012	2.83304	8.37619	2.79801	2.7265	3.5653
31400	31447	406.693	-52.977	-47.210	2.81890	8.34051	2.78515	2.7164	3.5520
31500	31548	406.336	-53.334	-47.408	2.80477	8.30483	2.77233	2.7062	3.5388
31600	31648	405.979	-53.691	-47.606	2.79063	8.26915	2.75957	2.6961	3.5256
31700	31748	405.623	-54.047	-47.804	2.77650	8.23348	2.74685	2.6861	3.5124
31800	31849	405.268	-54.404	-48.002	2.76236	8.19780	2.73418	2.6760	3.4993
31900	31949	404.909	-54.761	-48.200	2.74822	8.16213	2.72156	2.6660	3.4862
32000	32049	404.553	-55.117	-48.398	2.73408 + 2	8.12645 + 0	2.70899 - 1	2.6561 - 2	3.4731 - 1
32100	32149	404.196	-55.474	-48.597	2.72000	8.09081	2.69646	2.6461	3.4601
32200	32250	403.840	-55.830	-48.795	2.70591	8.05513	2.68398	2.6362	3.4472
32300	32350	403.483	-56.187	-48.993	2.69183	8.01945	2.67155	2.6263	3.4342
32400	32450	403.126	-56.544	-49.191	2.67774	7.98377	2.65916	2.6164	3.4213
32500	32551	402.770	-56.900	-49.389	2.66366	7.94809	2.64682	2.6063	3.4085
32600	32651	402.413	-57.257	-49.587	2.64957	7.91241	2.63452	2.5968	3.3956
32700	32751	402.057	-57.613	-49.785	2.63549	7.87673	2.62228	2.5870	3.3828
32800	32852	401.700	-57.970	-49.983	2.62140	7.84105	2.61008	2.5773	3.3701
32900	32952	401.343	-58.327	-50.181	2.60732	7.80537	2.59792	2.5675	3.3574
33000	33052	400.987	-58.683	-50.380	2.59323 + 2	7.76970 + 0	2.58581 - 1	2.5578 - 2	3.3447 - 1
33100	33153	400.630	-59.040	-50.578	2.57915	7.73402	2.57375	2.5482	3.3321
33200	33253	400.273	-59.397	-50.776	2.56507	7.69834	2.56173	2.5385	3.3195
33300	33353	399.917	-59.753	-50.974	2.55100	7.66266	2.54975	2.5289	3.3069
33400	33454	399.560	-60.110	-51.172	2.53692	7.62698	2.53783	2.5193	3.2944
33500	33554	399.204	-60.466	-51.370	2.52284	7.59130	2.52594	2.5098	3.2819
33600	33654	398.847	-60.823	-51.568	2.50876	7.55562	2.51411	2.5003	3.2694
33700	33755	398.490	-61.180	-51.766	2.49468	7.51994	2.50232	2.4908	3.2570
33800	33855	398.134	-61.536	-51.965	2.48060	7.48426	2.49057	2.4813	3.2446
33900	33956	397.777	-61.893	-52.163	2.46652	7.44858	2.47887	2.4718	3.2322
34000	34056	397.421	-62.249	-52.361	2.45244 + 2	7.41290 + 0	2.46721 - 1	2.4624 - 2	3.2199 - 1
34100	34156	397.064	-62.606	-52.559	2.43836	7.37722	2.45559	2.4530	3.2077
34200	34256	396.707	-62.963	-52.757	2.42428	7.34154	2.44402	2.4437	3.1954
34300	34357	396.351	-63.319	-52.955	2.41020	7.30586	2.43250	2.4343	3.1832
34400	34457	395.994	-63.676	-53.153	2.39612	7.27018	2.42102	2.4250	3.1710
34500	34557	395.637	-64.033	-53.351	2.38204	7.23450	2.40958	2.4157	3.1589
34600	34658	395.281	-64.389	-53.550	2.36796	7.19882	2.39819	2.4065	3.1468
34700	34758	394.924	-64.746	-53.748	2.35388	7.16314	2.38684	2.3973	3.1347
34800	34858	394.568	-65.102	-53.946	2.33980	7.12746	2.37553	2.3881	3.1227
34900	34959	394.211	-65.459	-54.144	2.32572	7.09178	2.36427	2.3789	3.1107
35000	35059	393.854	-65.816	-54.342	2.31164 + 2	7.05610 + 0	2.35305 - 1	2.3697 - 2	3.0987 - 1
35100	35160	393.497	-66.173	-54.540	2.29756	7.02042	2.34179	2.3515	3.0749
35200	35260	393.140	-66.530	-54.738	2.28348	6.98474	2.33053	2.3334	3.0513
35300	35361	392.783	-66.887	-54.936	2.26940	6.94906	2.31927	2.3154	3.0277
35400	35461	392.426	-67.244	-55.134	2.25532	6.91338	2.30801	2.2975	3.0043
35500	35562	392.069	-67.601	-55.332	2.24124	6.87770	2.29675	2.2796	2.9811
35600	35662	391.712	-67.958	-55.530	2.22716	6.84202	2.28549	2.2678	2.9580
35700	35763	391.355	-68.315	-55.728	2.21308	6.80634	2.27423	2.2560	2.9350
35800	35863	391.000	-68.672	-55.926	2.19900	6.77066	2.26297	2.2442	2.9121
35900	35964	390.643	-69.029	-56.124	2.18492	6.73498	2.25171	2.2324	2.8893
36000	36064	390.286	-69.386	-56.322	2.17084	6.69930	2.24045	2.2206	2.8665
36100	36165	389.929	-69.743	-56.520	2.15676	6.66362	2.22919	2.2088	2.8437
36200	36265	389.572	-70.100	-56.718	2.14268	6.62794	2.21793	2.1970	2.8210
36300	36366	389.215	-70.457	-56.916	2.12860	6.59226	2.20667	2.1852	2.7982
36400	36466	388.858	-70.814	-57.114	2.11452	6.55658	2.19541	2.1734	2.7755
36500	36567	388.501	-71.171	-57.312	2.10044	6.52090	2.18415	2.1616	2.7527
36600	36667	388.144	-71.528	-57.510	2.08636	6.48522	2.17289	2.1498	2.7300
36700	36768	387.787	-71.885	-57.708	2.07228	6.44954	2.16163	2.1380	2.7072
36800	36868	387.430	-72.242	-57.906	2.05820	6.41386	2.15037	2.1262	2.6845
36900	36969	387.073	-72.599	-58.104	2.04412	6.37818	2.13911	2.1144	2.6617
37000	37069	386.716	-72.956	-58.302	2.03004	6.34250	2.12785	2.1026	2.6390
37100	37170	386.359	-73.313	-58.500	2.01596	6.30682	2.11659	2.0908	2.6162
37200	37270	386.002	-73.670	-58.698	2.00188	6.27114	2.10533	2.0790	2.5935
37300	37371	385.645	-74.027	-58.896	1.98780	6.23546	2.09407	2.0672	2.5707
37400	37471	385.288	-74.384	-59.094	1.97372	6.19978	2.08281	2.0554	2.5480
37500	37572	384.931	-74.741	-59.292	1.95964	6.16410	2.07155	2.0436	2.5252
37600	37672	384.574	-75.098	-59.490	1.94556	6.12842	2.06029	2.0318	2.5025
37700	37773	384.217	-75.455	-59.688	1.93148	6.09274	2.04903	2.0200	2.4797
37800	37873	383.860	-75.812	-59.886	1.91740	6.05706	2.03777	2.0082	2.4570
37900	37974	383.503	-76.169	-60.084	1.90332	6.02138	2.02651	1.9964	2.4342
38000	38074	383.146	-76.526	-60.282	1.88924	5.98570	2.01525	1.9846	2.4115
38100	38175	382.789	-76.883	-60.480	1.87516	5.95002	2.00409	1.9728	2.3887
38200	38275	382.432	-77.240	-60.678	1.86108	5.91434	1.99283	1.9610	2.3660
38300	38376	382.075	-77.597	-60.876	1.84700	5.87866	1.98157	1.9492	2.3432
38400	38476	381.718	-77.954	-61.074	1.83292	5.84298	1.97031	1.9374	2.3205
38500	38577	381.361	-78.311	-61.272	1.81884	5.80730	1.95905	1.9256	2.2977
38600	38677	381.004	-78.668	-61.470	1.80476	5.77162	1.94779	1.9138	2.2750
38700	38778	380.647	-79.025	-61.668	1.79068	5.73594	1.93653	1.9020	2.2522
38800	38878	380.290	-79.382	-61.866	1.77660	5.70026	1.92527	1.8902	2.2295
38900	38979	379.933	-79.739	-62.064	1.76252	5.66458	1.91401	1.8784	2.2067
39000	39079	379.576	-80.096	-62.262	1.74844	5.62890	1.90275	1.8666	2.1840
39100	39180	379.219	-80.453	-62.460	1.73436	5.59322	1.89149	1.8548	2.1612
39200	39280	378.862	-80.810	-62.658	1.72028	5.55754	1.88023	1.8430	2.1385
39300	39381	378.505	-81.167	-62.856	1.70620	5.52186	1.86897	1.8312	2.1157
39400	39481	378.148	-81.524	-63.054	1.69212	5.48618	1.85771	1.8194	2.0930
39500	39582	377.791	-81.881	-63.252	1.67804	5.45050	1.84645	1.8076	2.0702
39600	39682	377.434	-82.238	-63.450	1.66396	5.41482	1.83519	1.7958	2.0475
39700	39783	377.077	-82.595	-63.648	1.64988	5.37914	1.82393	1.7840	2.0247
39800	39883	376.720	-82.952	-63.846	1.63580	5.34346	1.81267	1.7722	2.0020
39900	39984	376.363	-83.309	-64.044	1.62172	5.30778	1.80141	1.7604	1.9792
40000	40084	376.006	-83.666	-64.242	1.60764	5.27210	1.79015	1.7486	1.9565
40100	40185	375.649	-84.023	-64.440	1.59356	5.23642	1.77889	1.7368	1.9337
40200	40285	375.292	-84.380	-64.638	1.57948	5.20074	1.76763	1.7250	1.9110
40300	40386	374.935	-84.737	-64.836	1.56540	5.16506	1.75637	1.7132	1.8882
40400	40486	374.578	-85.094	-65.034	1.55132	5.12938	1.74511	1.7014	1.8655
40500	40587	374.221	-85.451	-65.232	1.53724	5.09370	1.73385	1.6896	1.8427
40600	40687	373.864	-85.808	-65.430	1.52316	5.05802	1.72259	1.6778	1.8200
40700	40788	373.507	-86.165	-65.628	1.50908	5.02234	1.71133	1.6660	1.7972
40800	40888	373.150	-86.522	-65.826	1.49500	4.98666	1.70007	1.6542	1.7745
40900	40989	372.793	-86.879	-66.024	1.48092	4.95098	1.68881	1.6424	1.7517
41000	41090	372.436	-87.236	-66.222	1.46684	4.91530	1.67755	1.6306	1.7290
41100	41190	372.079	-87.593	-66.420	1.45276	4.87962	1.66629	1.6188	1.7062
41200	41291	371.722	-87.950	-66.618	1				



# GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

ALTITUDE		TEMPERATURE			PRESSURE			DENSITY	
H, FT	Z, FT	T, °R	t, °F	t, °C	P, mB	P, IN. HG	$\frac{P}{P_0}$	$\rho, \text{LB FT}^{-3}$	$\frac{\rho}{\rho_0}$
43000	43000	389.970	-69.700	-54.500	1.62357 + 2	4.79438 + 0	1.60234 - 1	1.6208 - 2	2.1311 - 1
43200	43200	389.970	-69.700	-54.500	1.60803	4.74882	1.58701	1.6142	2.1108
43400	43400	389.970	-69.700	-54.500	1.59255	4.70310	1.57182	1.5987	2.0906
43600	43600	389.970	-69.700	-54.500	1.57741	4.65810	1.55679	1.5835	2.0708
43800	43800	389.970	-69.700	-54.500	1.56222	4.61354	1.54189	1.5683	2.0508
44000	44000	389.970	-69.700	-54.500	1.54728	4.56941	1.52714	1.5533	2.0311
44200	44200	389.970	-69.700	-54.500	1.53257	4.52589	1.51253	1.5384	2.0117
44400	44400	389.970	-69.700	-54.500	1.51791	4.48298	1.49808	1.5237	1.9925
44600	44600	389.970	-69.700	-54.500	1.50339	4.43951	1.48373	1.5091	1.9734
44800	44800	389.970	-69.700	-54.500	1.48891	4.39704	1.46954	1.4947	1.9545
45000	45000	389.970	-69.700	-54.500	1.47476 + 2	4.35488 + 0	1.45548 - 1	1.4804 - 2	1.9358 - 1
45200	45200	389.970	-69.700	-54.500	1.46086	4.31332	1.44158	1.4662	1.9173
45400	45400	389.970	-69.700	-54.500	1.44688	4.27205	1.42776	1.4522	1.8990
45600	45600	389.970	-69.700	-54.500	1.43284	4.23118	1.41411	1.4383	1.8808
45800	45800	389.970	-69.700	-54.500	1.41874	4.19070	1.40058	1.4246	1.8628
46000	46000	389.970	-69.700	-54.500	1.40558	4.15061	1.38718	1.4109	1.8450
46200	46200	389.970	-69.700	-54.500	1.39211	4.11091	1.37391	1.3974	1.8273
46400	46400	389.970	-69.700	-54.500	1.37879	4.07158	1.36076	1.3841	1.8099
46600	46600	389.970	-69.700	-54.500	1.36560	4.03263	1.34775	1.3708	1.7925
46800	46800	389.970	-69.700	-54.500	1.35254	3.99405	1.33485	1.3577	1.7754
47000	47000	389.970	-69.700	-54.500	1.33980 + 2	3.95584 + 0	1.32208 - 1	1.3447 - 2	1.7584 - 1
47200	47200	389.970	-69.700	-54.500	1.32679	3.91800	1.30944	1.3319	1.7416
47400	47400	389.970	-69.700	-54.500	1.31409	3.88051	1.29691	1.3191	1.7249
47600	47600	389.970	-69.700	-54.500	1.30152	3.84339	1.28450	1.3065	1.7084
47800	47800	389.970	-69.700	-54.500	1.28907	3.80662	1.27221	1.2940	1.6921
48000	48000	389.970	-69.700	-54.500	1.27674	3.77020	1.26004	1.2816	1.6759
48200	48200	389.970	-69.700	-54.500	1.26452	3.73414	1.24799	1.2694	1.6599
48400	48400	389.970	-69.700	-54.500	1.25243	3.69841	1.23605	1.2572	1.6440
48600	48600	389.970	-69.700	-54.500	1.24044	3.66303	1.22422	1.2452	1.6282
48800	48800	389.970	-69.700	-54.500	1.22858	3.62799	1.21251	1.2333	1.6127
49000	49000	389.970	-69.700	-54.500	1.21682 + 2	3.59328 + 0	1.20091 - 1	1.2215 - 2	1.5972 - 1
49200	49200	389.970	-69.700	-54.500	1.20518	3.55891	1.18942	1.2098	1.5820
49400	49400	389.970	-69.700	-54.500	1.19365	3.52486	1.17805	1.1982	1.5668
49600	49600	389.970	-69.700	-54.500	1.18223	3.49114	1.16678	1.1868	1.5518
49800	49800	389.970	-69.700	-54.500	1.17092	3.45774	1.15561	1.1754	1.5370
50000	50000	389.970	-69.700	-54.500	1.15972	3.42466	1.14456	1.1642	1.5223
50200	50200	389.970	-69.700	-54.500	1.14863	3.39190	1.13361	1.1530	1.5077
50400	50400	389.970	-69.700	-54.500	1.13764	3.35945	1.12278	1.1420	1.4933
50600	50600	389.970	-69.700	-54.500	1.12676	3.32731	1.11202	1.1311	1.4790
50800	50800	389.970	-69.700	-54.500	1.11598	3.29548	1.10138	1.1202	1.4649
51000	51125	389.970	-69.970	-54.500	1.10530 + 2	3.26386 + 0	1.09085 - 1	1.1095 - 2	1.4509 - 1
51200	51326	389.970	-69.700	-54.500	1.09473	3.23273	1.08041	1.0989	1.4370
51400	51527	389.970	-69.970	-54.500	1.08425	3.20180	1.07008	1.0884	1.4232
51600	51728	389.970	-69.700	-54.500	1.07388	3.17117	1.05984	1.0780	1.4096
51800	51929	389.970	-69.700	-54.500	1.06361	3.14083	1.04970	1.0677	1.3961
52000	52130	389.970	-69.700	-54.500	1.05343	3.11079	1.03964	1.0575	1.3828
52200	52331	389.970	-69.700	-54.500	1.04336	3.08103	1.02971	1.0473	1.3696
52400	52532	389.970	-69.700	-54.500	1.03337	3.05158	1.01986	1.0373	1.3564
52600	52733	389.970	-69.700	-54.500	1.02348	3.02238	1.01010	1.0274	1.3435
52800	52934	389.970	-69.700	-54.500	1.01370	2.99344	1.00044	1.0176	1.3306
53000	53135	389.970	-69.700	-54.500	1.00400 + 2	2.96481 + 0	9.90870 - 2	1.0078 - 2	1.3179 - 1
53200	53336	389.970	-69.700	-54.500	9.94384 + 1	2.93644	9.81390	9.9820 - 3	1.3053
53400	53537	389.970	-69.700	-54.500	9.94481	2.90835	9.72002	9.8865	1.2928
53600	53738	389.970	-69.700	-54.500	9.75459	2.88053	9.62703	9.7919	1.2804
53800	53939	389.970	-69.700	-54.500	9.66127	2.85297	9.53483	9.6982	1.2682
54000	54140	389.970	-69.700	-54.500	9.56584	2.82568	9.44371	9.6055	1.2560
54200	54341	389.970	-69.700	-54.500	9.47730	2.79865	9.35337	9.5136	1.2440
54400	54542	389.970	-69.700	-54.500	9.38664	2.77187	9.26389	9.4228	1.2321
54600	54743	389.970	-69.700	-54.500	9.29484	2.74535	9.17526	9.3324	1.2203
54800	54944	389.970	-69.700	-54.500	9.20790	2.71908	9.08748	9.2431	1.2087
55000	55145	389.970	-69.700	-54.500	9.11981 + 1	2.69308 + 0	9.00085 - 2	9.1547 - 3	1.1971 - 1
55200	55347	389.970	-69.700	-54.500	9.03256	2.66731	8.91445	9.0671	1.1856
55400	55548	389.970	-69.700	-54.500	8.94615	2.64180	8.82917	8.9804	1.1743
55600	55749	389.970	-69.700	-54.500	8.86057	2.61652	8.74470	8.8945	1.1631
55800	55950	389.970	-69.700	-54.500	8.77580	2.59149	8.66104	8.8094	1.1519
56000	56151	389.970	-69.700	-54.500	8.69185	2.56670	8.57819	8.7251	1.1408
56200	56352	389.970	-69.700	-54.500	8.60869	2.54215	8.49612	8.6416	1.1300
56400	56553	389.970	-69.700	-54.500	8.52634	2.51783	8.41484	8.5580	1.1192
56600	56754	389.970	-69.700	-54.500	8.44477	2.49374	8.33434	8.4771	1.1085
56800	56955	389.970	-69.700	-54.500	8.36398	2.46988	8.25461	8.3968	1.0979
57000	57156	389.970	-69.700	-54.500	8.28397 + 1	2.44625 + 0	8.17564 - 2	8.3157 - 3	1.0874 - 1
57200	57357	389.970	-69.700	-54.500	8.20472	2.42285	8.09743	8.2361	1.0770
57400	57558	389.970	-69.700	-54.500	8.12632	2.39967	8.01996	8.1573	1.0667
57600	57759	389.970	-69.700	-54.500	8.04848	2.37672	7.94324	8.0793	1.0565
57800	57961	389.970	-69.700	-54.500	7.97149	2.35398	7.86725	8.0020	1.0464
58000	58162	389.970	-69.700	-54.500	7.89623	2.33146	7.79198	7.9254	1.0364
58200	58363	389.970	-69.700	-54.500	7.81970	2.30916	7.71744	7.8498	1.0264
58400	58564	389.970	-69.700	-54.500	7.74488	2.28708	7.64381	7.7745	1.0166
58600	58765	389.970	-69.700	-54.500	7.67080	2.26519	7.57048	7.7001	1.0069
58800	58966	389.970	-69.700	-54.500	7.59741	2.24351	7.49806	7.6265	9.9725 - 2

# GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

ALTITUDE		TEMPERATURE			PRESSURE			DENSITY	
H, FT	Z, FT	T, °R	t, °F	t, °C	P, mB	P, IN. HG	$\frac{P}{P_0}$	$\rho, \text{LB FT}^{-3}$	$\frac{\rho}{\rho_0}$
59000	59167	389.970	-69.700	-54.900	7.52473 + 1	2.22206 + 0	7.42633 - 2	7.5636 - 3	9.8772 - 2
59200	59338	389.970	-69.700	-54.900	7.46274	2.20079	7.35529	7.4613	9.7327
59400	59570	389.970	-69.700	-54.900	7.38145	2.17774	7.23462	7.4057	9.5701
59600	59771	389.970	-69.700	-54.900	7.31053	2.15512	7.11532	7.2365	9.5154
59800	59972	389.970	-69.700	-54.900	7.24069	2.13323	7.00490	7.2580	9.5046
60000	60173	389.970	-69.700	-54.900	7.17162	2.11178	6.89784	7.1991	9.4137
60200	60374	389.970	-69.700	-54.900	7.10301	2.09752	6.81013	7.1302	9.3237
60400	60575	389.970	-69.700	-54.900	7.03506	2.07746	6.74308	7.0620	9.2345
60600	60777	389.970	-69.700	-54.900	6.96776	2.05758	6.67684	6.9944	9.1461
60800	60978	389.970	-69.700	-54.900	6.90110	2.03789	6.61086	6.9275	9.0586
61000	61179	389.970	-69.700	-54.900	6.83508 + 1	2.01840 + 0	6.54570 - 2	6.8612 - 3	8.9720 - 2
61200	61380	389.970	-69.700	-54.900	6.76969	1.99909	6.48116	6.7966	8.8861
61400	61581	389.970	-69.700	-54.900	6.70493	1.97988	6.41725	6.7308	8.8011
61600	61783	389.970	-69.700	-54.900	6.64078	1.96102	6.35394	6.6642	8.7169
61800	61984	389.970	-69.700	-54.900	6.57725	1.94236	6.29124	6.6024	8.6335
62000	62185	389.970	-69.700	-54.900	6.51433	1.92388	6.22914	6.5393	8.5509
62200	62386	389.970	-69.700	-54.900	6.45201	1.90528	6.16764	6.4767	8.4691
62400	62587	389.970	-69.700	-54.900	6.39029	1.88706	6.10672	6.4147	8.3881
62600	62788	389.970	-69.700	-54.900	6.32915	1.86900	6.04639	6.3534	8.3079
62800	62990	389.970	-69.700	-54.900	6.26860	1.85112	6.18683	6.2926	8.2284
63000	63191	389.970	-69.700	-54.900	6.20864 + 1	1.83341 + 0	6.12745 - 2	6.2324 - 3	8.1497 - 2
63200	63392	389.970	-69.700	-54.900	6.14924	1.81587	6.06883	6.1728	8.0717
63400	63593	389.970	-69.700	-54.900	6.09041	1.79840	6.01077	6.1137	7.9945
63600	63795	389.970	-69.700	-54.900	6.03215	1.78129	5.95327	6.0552	7.9180
63800	63996	389.970	-69.700	-54.900	5.97444	1.76425	5.89631	5.9973	7.8422
64000	64197	389.970	-69.700	-54.900	5.91728	1.74737	5.83991	5.9399	7.7672
64200	64398	389.970	-69.700	-54.900	5.86068	1.73066	5.78404	5.8831	7.6929
64400	64599	389.970	-69.700	-54.900	5.80461	1.71410	5.72870	5.8268	7.6193
64600	64801	389.970	-69.700	-54.900	5.74908	1.69770	5.67390	5.7711	7.5464
64800	65002	389.970	-69.700	-54.900	5.69408	1.68146	5.61962	5.7159	7.4742
65000	65203	389.970	-69.700	-54.900	5.63961 + 1	1.66537 + 0	5.56586 - 2	5.6612 - 3	7.4027 - 2
65200	65404	389.970	-69.700	-54.900	5.58565	1.64944	5.51261	5.6070	7.3319
65400	65606	389.970	-69.700	-54.900	5.53222	1.63364	5.45987	5.5534	7.2618
65600	65807	389.970	-69.700	-54.900	5.47939	1.61803	5.40764	5.5003	7.1923
65800	66008	389.970	-69.700	-54.900	5.42698	1.60256	5.35591	5.4482	7.1217
66000	66210	389.970	-69.700	-54.900	5.37499	1.58723	5.30470	5.3968	7.0516
66200	66411	389.970	-69.700	-54.900	5.32320	1.57206	5.25399	5.3456	6.9822
66400	66612	389.970	-69.700	-54.900	5.27172	1.55703	5.20377	5.2947	6.9135
66600	66813	389.970	-69.700	-54.900	5.22054	1.54216	5.15405	5.2451	6.8455
66800	67015	389.970	-69.700	-54.900	5.16965	1.52742	5.10481	5.1956	6.7783
67000	67216	389.970	-69.700	-54.900	5.11906 + 1	1.51284 + 0	5.05608 - 2	5.1472 - 3	6.7116 - 2
67200	67417	389.970	-69.700	-54.900	5.06877	1.49840	5.00780	5.0983	6.6457
67400	67619	389.970	-69.700	-54.900	5.01878	1.48410	4.95900	5.0503	6.5804
67600	67820	389.970	-69.700	-54.900	4.96909	1.46994	4.91068	4.9929	6.5156
67800	68021	389.970	-69.700	-54.900	4.91960	1.45591	4.86281	4.9440	6.4518
68000	68222	389.970	-69.700	-54.900	4.87031	1.44200	4.81541	4.8956	6.3885
68200	68423	389.970	-69.700	-54.900	4.82122	1.42828	4.76847	4.8476	6.3258
68400	68624	389.970	-69.700	-54.900	4.77233	1.41467	4.72198	4.7992	6.2638
68600	68825	389.970	-69.700	-54.900	4.72364	1.40119	4.67593	4.7522	6.2024
68800	69026	389.970	-69.700	-54.900	4.67515	1.38784	4.63032	4.7067	6.1416
69000	69227	389.970	-69.700	-54.900	4.62686 + 1	1.37463 + 0	4.58515 - 2	4.6557 - 3	6.0814 - 2
69200	69428	389.970	-69.700	-54.900	4.57877	1.36154	4.54041	4.6051	6.0213
69400	69629	389.970	-69.700	-54.900	4.53088	1.34858	4.50070	4.5600	5.9628
69600	69830	389.970	-69.700	-54.900	4.48319	1.33575	4.46422	4.5154	5.9044
69800	70031	389.970	-69.700	-54.900	4.43560	1.32304	4.42175	4.4712	5.8466
70000	70232	389.970	-69.700	-54.900	4.38811	1.31046	4.37970	4.4274	5.7894
70200	70433	389.970	-69.700	-54.900	4.34072	1.29800	4.33807	4.3841	5.7328
70400	70634	389.970	-69.700	-54.900	4.29343	1.28567	4.29684	4.3412	5.6767
70600	70835	389.970	-69.700	-54.900	4.24624	1.27345	4.25601	4.2988	5.6212
70800	71036	389.970	-69.700	-54.900	4.19915	1.26135	4.21558	4.2567	5.5662
71000	71237	389.970	-69.700	-54.900	4.15216 + 1	1.24936 + 0	4.17535 - 2	4.2151 - 3	5.5118 - 2
71200	71438	389.970	-69.700	-54.900	4.10527	1.23751	4.13580	4.1740	5.4580
71400	71639	389.970	-69.700	-54.900	4.05848	1.22577	4.08665	4.1332	5.4047
71600	71840	389.970	-69.700	-54.900	4.01179	1.21414	4.03778	4.0928	5.3519
71800	72041	389.970	-69.700	-54.900	3.96520	1.20262	4.01829	4.0529	5.2997
72000	72242	389.970	-69.700	-54.900	3.91871	1.19122	3.96117	4.0133	5.2479
72200	72443	389.970	-69.700	-54.900	3.87232	1.17992	3.94343	3.9742	5.1967
72400	72644	389.970	-69.700	-54.900	3.82603	1.16874	3.90605	3.9354	5.1460
72600	72845	389.970	-69.700	-54.900	3.77984	1.15767	3.86884	3.8970	5.0959
72800	73046	389.970	-69.700	-54.900	3.73375	1.14670	3.83239	3.8590	5.0462
73000	73247	389.970	-69.700	-54.900	3.68776 + 1	1.13584 + 0	3.78610 - 2	3.8214 - 3	4.9970 - 2
73200	73448	389.970	-69.700	-54.900	3.64187	1.12509	3.74916	3.7842	4.9483
73400	73649	389.970	-69.700	-54.900	3.59608	1.11444	3.71257	3.7473	4.9001
73600	73850	389.970	-69.700	-54.900	3.55039	1.10389	3.67638	3.7108	4.8524
73800	74051	389.970	-69.700	-54.900	3.50480	1.09344	3.64059	3.6747	4.8052
74000	74252	389.970	-69.700	-54.900	3.45921	1.08309	3.61117	3.6389	4.7584
74200	74453	389.970	-69.700	-54.900	3.41372	1.07284	3.58564	3.6035	4.7121
74400	74654	389.970	-69.700	-54.900	3.36823	1.06269	3.56175	3.5685	4.6663
74600	74855	389.970	-69.700	-54.900	3.32284	1.05264	3.53819	3.5338	4.6209
74800	75056	389.970	-69.700	-54.900	3.27745	1.04269	3.51496	3.4994	4.5760

# GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

ALTITUDE		TEMPERATURE			PRESSURE			DENSITY	
H, FT	Z, FT	T, °R	t, °F	t, °C	P, mB	P, IN. HG	$\frac{P}{P_0}$	$\rho, \text{LB FT}^{-3}$	$\frac{\rho}{\rho_0}$
75000	75271	395.118	-64.562	-52.600	1.0779 + 1	1.02390 + 0	3.45205 - 2	3.4664 - 3	4.5315 - 2
75200	75472	395.228	-64.442	-52.579	1.06476	1.02314	3.41945	3.4318	4.4875
75400	75674	395.337	-64.323	-52.558	1.05164	1.02239	3.38715	3.3994	4.4439
75600	75875	395.447	-64.203	-52.537	1.03852	1.02163	3.35501	3.3672	4.4007
75800	76077	395.557	-64.083	-52.516	1.02540	1.02088	3.32291	3.3350	4.3577
76000	76278	395.667	-63.963	-52.495	1.01228	1.02012	3.29081	3.3024	4.3157
76200	76479	395.776	-63.843	-52.474	1.00000	1.01937	3.25871	3.2694	4.2738
76400	76681	395.886	-63.723	-52.453	0.98772	1.01861	3.22661	3.2367	4.2324
76600	76882	395.996	-63.603	-52.432	0.97544	1.01786	3.19451	3.2043	4.1913
76800	77084	396.106	-63.483	-52.411	0.96316	1.01710	3.16241	3.1723	4.1507
77000	77285	396.215	-63.363	-52.390	0.95088	1.01635	3.13031	3.1404	4.1105
77200	77487	396.325	-63.243	-52.369	0.93860	1.01559	3.09821	3.1082	4.0708
77400	77688	396.435	-63.123	-52.348	0.92632	1.01484	3.06611	3.0760	4.0312
77600	77890	396.544	-63.003	-52.327	0.91404	1.01408	3.03401	3.0458	3.9922
77800	78091	396.654	-62.883	-52.306	0.90176	1.01333	3.00191	3.0137	3.9535
78000	78293	396.764	-62.763	-52.285	0.88948	1.01257	2.96981	2.9815	3.9152
78200	78494	396.874	-62.643	-52.264	0.87720	1.01182	2.93771	2.9494	3.8774
78400	78696	396.984	-62.523	-52.243	0.86492	1.01106	2.90561	2.9173	3.8399
78600	78897	397.094	-62.403	-52.222	0.85264	1.01031	2.87351	2.8852	3.8027
78800	79099	397.203	-62.283	-52.201	0.84036	1.00955	2.84141	2.8531	3.7660
79000	79300	397.313	-62.163	-52.180	0.82808	1.00880	2.80931	2.8210	3.7296
79200	79502	397.422	-62.043	-52.159	0.81580	1.00804	2.77721	2.7889	3.6935
79400	79703	397.532	-61.923	-52.138	0.80352	1.00729	2.74511	2.7568	3.6578
79600	79905	397.642	-61.803	-52.117	0.79124	1.00653	2.71301	2.7247	3.6225
79800	80107	397.751	-61.683	-52.096	0.77896	1.00578	2.68091	2.6926	3.5875
80000	80308	397.861	-61.563	-52.075	0.76668	1.00502	2.64881	2.6605	3.5529
80200	80510	397.971	-61.443	-52.054	0.75440	1.00427	2.61671	2.6284	3.5186
80400	80711	398.081	-61.323	-52.033	0.74212	1.00351	2.58461	2.5963	3.4847
80600	80913	398.190	-61.203	-52.012	0.72984	1.00276	2.55251	2.5642	3.4511
80800	81114	398.300	-61.083	-51.991	0.71756	1.00200	2.52041	2.5321	3.4178
81000	81316	398.410	-60.963	-51.970	0.70528	1.00125	2.48831	2.5000	3.3849
81200	81517	398.520	-60.843	-51.949	0.69300	1.00049	2.45621	2.4679	3.3522
81400	81719	398.629	-60.723	-51.928	0.68072	1.00000	2.42411	2.4358	3.3199
81600	81921	398.739	-60.603	-51.907	0.66844	0.99924	2.39201	2.4037	3.2880
81800	82122	398.849	-60.483	-51.886	0.65616	0.99849	2.35991	2.3716	3.2563
82000	82324	398.958	-60.363	-51.865	0.64388	0.99773	2.32781	2.3395	3.2250
82200	82525	399.068	-60.243	-51.844	0.63160	0.99698	2.29571	2.3074	3.1939
82400	82727	399.178	-60.123	-51.823	0.61932	0.99622	2.26361	2.2753	3.1632
82600	82928	399.288	-60.003	-51.802	0.60704	0.99547	2.23151	2.2432	3.1328
82800	83130	399.397	-59.883	-51.781	0.59476	0.99471	2.19941	2.2111	3.1027
83000	83332	399.507	-59.763	-51.760	0.58248	0.99396	2.16731	2.1790	3.0728
83200	83533	399.617	-59.643	-51.739	0.57020	0.99320	2.13521	2.1469	3.0433
83400	83735	399.727	-59.523	-51.718	0.55792	0.99245	2.10311	2.1148	3.0141
83600	83937	399.836	-59.403	-51.697	0.54564	0.99169	2.07101	2.0827	2.9851
83800	84138	399.946	-59.283	-51.676	0.53336	0.99094	2.03891	2.0506	2.9564
84000	84340	400.056	-59.163	-51.655	0.52108	0.99018	2.00681	2.0185	2.9281
84200	84541	400.165	-59.043	-51.634	0.50880	0.98943	1.97471	1.9864	2.9000
84400	84743	400.275	-58.923	-51.613	0.49652	0.98867	1.94261	1.9543	2.8721
84600	84945	400.385	-58.803	-51.592	0.48424	0.98792	1.91051	1.9222	2.8446
84800	85146	400.495	-58.683	-51.571	0.47196	0.98716	1.87841	1.8901	2.8173
85000	85348	400.604	-58.563	-51.550	0.45968	0.98641	1.84631	1.8580	2.7903
85200	85550	400.714	-58.443	-51.529	0.44740	0.98565	1.81421	1.8259	2.7636
85400	85751	400.824	-58.323	-51.508	0.43512	0.98490	1.78211	1.7938	2.7371
85600	85953	400.934	-58.203	-51.487	0.42284	0.98414	1.75001	1.7617	2.7109
85800	86154	401.043	-58.083	-51.466	0.41056	0.98339	1.71791	1.7296	2.6849
86000	86356	401.153	-57.963	-51.445	0.39828	0.98263	1.68581	1.6975	2.6592
86200	86558	401.263	-57.843	-51.424	0.38600	0.98188	1.65371	1.6654	2.6338
86400	86759	401.372	-57.723	-51.403	0.37372	0.98112	1.62161	1.6333	2.6086
86600	86961	401.482	-57.603	-51.382	0.36144	0.98037	1.58951	1.6012	2.5836
86800	87163	401.592	-57.483	-51.361	0.34916	0.97961	1.55741	1.5691	2.5589
87000	87364	401.702	-57.363	-51.340	0.33688	0.97886	1.52531	1.5370	2.5344
87200	87566	401.811	-57.243	-51.319	0.32460	0.97810	1.49321	1.5049	2.5102
87400	87768	401.921	-57.123	-51.298	0.31232	0.97735	1.46111	1.4728	2.4862
87600	87970	402.031	-57.003	-51.277	0.30004	0.97659	1.42901	1.4407	2.4625
87800	88171	402.141	-56.883	-51.256	0.28776	0.97584	1.39691	1.4086	2.4390
88000	88373	402.250	-56.763	-51.235	0.27548	0.97508	1.36481	1.3765	2.4157
88200	88575	402.360	-56.643	-51.214	0.26320	0.97433	1.33271	1.3444	2.3926
88400	88776	402.470	-56.523	-51.193	0.25092	0.97357	1.30061	1.3123	2.3698
88600	88978	402.579	-56.403	-51.172	0.23864	0.97282	1.26851	1.2802	2.3472
88800	89180	402.689	-56.283	-51.151	0.22636	0.97206	1.23641	1.2481	2.3248
89000	89381	402.799	-56.163	-51.130	0.21408	0.97131	1.20431	1.2160	2.3026
89200	89583	402.909	-56.043	-51.109	0.20180	0.97055	1.17221	1.1839	2.2807
89400	89785	403.018	-55.923	-51.088	0.18952	0.96980	1.14011	1.1518	2.2589
89600	89987	403.128	-55.803	-51.067	0.17724	0.96904	1.10801	1.1197	2.2374
89800	90189	403.238	-55.683	-51.046	0.16496	0.96829	1.07591	1.0876	2.2161
90000	90390	403.348	-55.563	-51.025	0.15268	0.96753	1.04381	1.0555	2.1950
90200	90592	403.457	-55.443	-51.004	0.14040	0.96678	1.01171	1.0234	2.1741
90400	90794	403.567	-55.323	-50.983	0.12812	0.96602	0.97961	0.9913	2.1534
90600	90996	403.677	-55.203	-50.962	0.11584	0.96527	0.94751	0.9592	2.1329
90800	91197	403.787	-55.083	-50.941	0.10356	0.96451	0.91541	0.9271	2.1127

# GEOPOTENTIAL ALTITUDE, ENGLISH UNITS

ALTITUDE		TEMPERATURE			PRESSURE			DENSITY	
H, FT	Z, FT	T, °R	t, °F	t, °C	P, mB	P, IN. HG	$\frac{P}{P_0}$	$\rho, \text{LB FT}^{-3}$	$\frac{\rho}{\rho_0}$
91000	91299	403.253	-55.774	-48.763	1.65110 + 1	4.87370 - 1	1.62951 - 2	1.6003 - 3	2.0926 - 2
91200	91501	403.205	-55.844	-48.762	1.63525	4.83394	1.61446	1.5851	2.0777
91400	91702	403.176	-55.914	-48.761	1.62074	4.79418	1.59965	1.5700	2.0630
91600	91904	403.152	-55.985	-48.760	1.60657	4.75487	1.58478	1.5551	2.0335
91800	92106	403.135	-56.056	-48.759	1.59266	4.71580	1.57015	1.5403	2.0142
92000	92308	403.125	-56.125	-48.758	1.57902	4.67695	1.55567	1.5257	1.9960
92200	92510	403.118	-56.195	-48.757	1.56562	4.63822	1.54132	1.5112	1.9781
92400	92712	403.112	-56.265	-48.756	1.55243	4.59960	1.52710	1.4969	1.9673
92600	92914	403.108	-56.335	-48.755	1.53943	4.56108	1.51302	1.4827	1.9588
92800	93116	403.104	-56.405	-48.754	1.52662	4.52266	1.49908	1.4686	1.9504
93000	93318	403.101	-56.475	-48.753	1.51400	4.48434	1.48526 - 2	1.4547 - 3	1.9022 - 2
93200	93520	403.100	-56.545	-48.752	1.49108	4.43616	1.47158	1.4409	1.8841
93400	93722	403.100	-56.615	-48.751	1.47735	4.38816	1.45803	1.4272	1.8663
93600	93924	403.100	-56.685	-48.750	1.46375	4.34024	1.44480	1.4137	1.8486
93800	94126	403.100	-56.755	-48.749	1.45027	4.29242	1.43131	1.4003	1.8311
94000	94328	403.100	-56.825	-48.748	1.43683	4.24460	1.41814	1.3870	1.8137
94200	94530	403.100	-56.895	-48.747	1.42343	4.19682	1.40509	1.3739	1.7966
94400	94732	403.100	-56.965	-48.746	1.41008	4.14904	1.39217	1.3608	1.7796
94600	94934	403.100	-57.035	-48.745	1.39688	4.10126	1.37937	1.3480	1.7627
94800	95136	403.100	-57.105	-48.744	1.38375	4.05348	1.36669	1.3353	1.7460
95000	95338	403.100	-57.175	-48.743	1.37067	4.00570	1.35413 - 2	1.3226 - 3	1.7295 - 2
95200	95540	403.100	-57.245	-48.742	1.35765	3.95792	1.34160	1.3101	1.7132
95400	95742	403.100	-57.315	-48.741	1.34468	3.91014	1.32906	1.2978	1.6970
95600	95944	403.100	-57.385	-48.740	1.33175	3.86236	1.31716	1.2855	1.6809
95800	96146	403.100	-57.455	-48.739	1.31883	3.81458	1.30506	1.2733	1.6651
96000	96348	403.100	-57.525	-48.738	1.30592	3.76680	1.29309	1.2613	1.6493
96200	96550	403.100	-57.595	-48.737	1.29302	3.71902	1.28122	1.2494	1.6338
96400	96752	403.100	-57.665	-48.736	1.28012	3.67124	1.26947	1.2376	1.6183
96600	96954	403.100	-57.735	-48.735	1.26722	3.62346	1.25783	1.2259	1.6031
96800	97156	403.100	-57.805	-48.734	1.25432	3.57568	1.24630	1.2144	1.5879
97000	97358	403.100	-57.875	-48.733	1.24142	3.52790	1.23488 - 2	1.2029 - 3	1.5730 - 2
97200	97560	403.100	-57.945	-48.732	1.22847	3.48012	1.22356	1.1916	1.5581
97400	97762	403.100	-58.015	-48.731	1.21552	3.43234	1.21235	1.1803	1.5434
97600	97964	403.100	-58.085	-48.730	1.20257	3.38456	1.20125	1.1692	1.5289
97800	98166	403.100	-58.155	-48.729	1.18962	3.33678	1.19025	1.1582	1.5145
98000	98368	403.100	-58.225	-48.728	1.17667	3.28900	1.17936	1.1473	1.5002
98200	98570	403.100	-58.295	-48.727	1.16372	3.24122	1.16857	1.1365	1.4861
98400	98772	403.100	-58.365	-48.726	1.15077	3.19344	1.15788	1.1258	1.4721
98600	98974	403.100	-58.435	-48.725	1.13782	3.14566	1.14729	1.1152	1.4583
98800	99176	403.100	-58.505	-48.724	1.12487	3.09788	1.13680	1.1047	1.4445
99000	99378	403.100	-58.575	-48.723	1.11192	3.05010	1.12641 - 2	1.0943 - 3	1.4309 - 2
99200	99580	403.100	-58.645	-48.722	1.09897	3.00232	1.11611	1.0840	1.4175
99400	99782	403.100	-58.715	-48.721	1.08602	2.95454	1.10582	1.0738	1.4042
99600	99984	403.100	-58.785	-48.720	1.07307	2.90676	1.09552	1.0637	1.3910
99800	100186	403.100	-58.855	-48.719	1.06012	2.85898	1.08521	1.0537	1.3779
100000	100388	403.100	-58.925	-48.718	1.04717	2.81120	1.07490	1.0438	1.3649
100200	100590	403.100	-58.995	-48.717	1.03422	2.76342	1.06460	1.0340	1.3521
100400	100792	403.100	-59.065	-48.716	1.02127	2.71564	1.05430	1.0243	1.3394
100600	100994	403.100	-59.135	-48.715	1.00832	2.66786	1.04400	1.0147	1.3269
100800	101196	403.100	-59.205	-48.714	0.99537	2.62008	1.03371	1.0052	1.3144
101000	101398	403.100	-59.275	-48.713	0.98242	2.57230	1.02341 - 2	9.9575 - 4	1.3021 - 2
101200	101600	403.100	-59.345	-48.712	0.96947	2.52452	1.01311	9.8641	1.2899
101400	101802	403.100	-59.415	-48.711	0.95652	2.47674	1.00282	9.7716	1.2778
101600	102004	403.100	-59.485	-48.710	0.94357	2.42896	0.99252	9.6800	1.2658
101800	102206	403.100	-59.555	-48.709	0.93062	2.38118	0.98221	9.5885	1.2539
102000	102408	403.100	-59.625	-48.708	0.91767	2.33340	0.97190	9.4969	1.2422
102200	102610	403.100	-59.695	-48.707	0.90472	2.28562	0.96160	9.4053	1.2306
102400	102812	403.100	-59.765	-48.706	0.89177	2.23784	0.95130	9.3137	1.2190
102600	103014	403.100	-59.835	-48.705	0.87882	2.19006	0.94100	9.2221	1.2076
102800	103216	403.100	-59.905	-48.704	0.86587	2.14228	0.93070	9.1305	1.1963
103000	103418	403.100	-59.975	-48.703	0.85292	2.09450	0.92040	9.0389	1.1851 - 2
103200	103620	403.100	-60.045	-48.702	0.84000	2.04672	0.91010	8.9473	1.1740
103400	103822	403.100	-60.115	-48.701	0.82705	2.00000	0.90000	8.8557	1.1630
103600	104024	403.100	-60.185	-48.700	0.81410	1.95322	0.89000	8.7641	1.1522
103800	104226	403.100	-60.255	-48.699	0.80115	1.90644	0.88000	8.6725	1.1414
104000	104428	403.100	-60.325	-48.698	0.78820	1.85966	0.87000	8.5809	1.1307
104200	104630	403.100	-60.395	-48.697	0.77525	1.81288	0.86000	8.4893	1.1202
104400	104832	403.100	-60.465	-48.696	0.76230	1.76610	0.85000	8.3977	1.1097
104600	105034	403.100	-60.535	-48.695	0.74935	1.71932	0.84000	8.3061	1.0993
104800	105236	403.100	-60.605	-48.694	0.73640	1.67254	0.83000	8.2145	1.0891
105000	105438	403.100	-60.675	-48.693	0.72345	1.62576	0.82000	8.1229	1.0788 - 2
105200	105640	403.100	-60.745	-48.692	0.71050	1.57898	0.81000	8.0313	1.0687
105400	105842	403.100	-60.815	-48.691	0.69755	1.53220	0.80000	7.9397	1.0587
105600	106044	403.100	-60.885	-48.690	0.68460	1.48542	0.79000	7.8481	1.0487
105800	106246	403.100	-60.955	-48.689	0.67165	1.43864	0.78000	7.7565	1.0387
106000	106448	403.100	-61.025	-48.688	0.65870	1.39186	0.77000	7.6649	1.0287
106200	106650	403.100	-61.095	-48.687	0.64575	1.34508	0.76000	7.5733	1.0187
106400	106852	403.100	-61.165	-48.686	0.63280	1.29830	0.75000	7.4817	1.0087
106600	107054	403.100	-61.235	-48.685	0.61985	1.25152	0.74000	7.3901	0.9987
106800	107256	403.100	-61.305	-48.684	0.60690	1.20474	0.73000	7.2985	0.9887
107000	107458	403.100	-61.375	-48.683	0.59395	1.15796	0.72000	7.2069	0.9787
107200	107660	403.100	-61.445	-48.682	0.58100	1.11118	0.71000	7.1153	0.9687
107400	107862	403.100	-61.515	-48.681	0.56805	1.06440	0.70000	7.0237	0.9587
107600	108064	403.100	-61.585	-48.680	0.55510	1.01762	0.69000	6.9321	0.9487
107800	108266	403.100	-61.655	-48.679	0.54215	0.97084	0.68000	6.8405	0.9387
108000	108468	403.100	-61.725	-48.678	0.52920	0.92406	0.67000	6.7489	0.9287
108200	108670	403.100	-61.795	-48.677	0.51625	0.87728	0.66000	6.6573	0.9187
108400	108872	403.100	-61.865	-48.676	0.50330	0.83050	0.65000	6.5657	0.9087
108600	109074	403.100	-61.935	-48.675	0.49035	0.78372	0.64000	6.4741	0.8987
108800	109276	403.100	-62.005	-48.674	0.47740	0.73694	0.63000	6.3825	0.8887
109000	109478	403.100	-62.075	-48.673	0.46445	0.69016	0.62000	6.2909	0.8787
109200	109680	403.100	-62.145	-48.672	0.45150	0.64338	0.61000	6.1993	0.8687
109400	109882	403.100	-62.215	-48.671	0.43855	0.59660	0.60000	6.1077	0.8587
109600	110084	403.100	-62.285	-48.670	0.42560	0.54982	0.59000	6.0161	0.8487
109800	110286	403.100	-62.355	-48.669	0.41265	0.50304	0.58000	5.9245	0.8387
110000	110488	403.100	-62.425	-48.668	0.40000	0.45626	0.57000	5.8329	0.8287